Complete if Known

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O.A. & YEE	for FY 2004			Application Number		09/754,463		
amu @ \ 1				Filing Date		January 4, 2001		
TAT 1 8 SAME 5	6 2004 8 IOF FY 2004			First Named Inventor		Akira ARAI et al.		
	Effective 10/01/2003. Patent fees are subject to annual revision.			Examiner Name John P. Sheehan				
& TRADEL POPULANT Clai	ms small entity status. See 37 CFR 1.27	Art Un	iit		1742			
TOTAL AMOUNT	OF PAYMENT (\$) 180	Attorne	ey Dock	et No.	9319	A-000183		
METHO	D OF PAYMENT (check all that apply)				FEE C	ALCULATION (continued)		
☑ Check ☐ Credit	card Money Other None	3. AD	OITIO	VAL FE	ES			
Deposit Account:	Order	Large	Entity	Small E	ntity			
		Fee	Fee	Fee	Fee	Fee Description	Fee Paid	
Deposit Account 08-	-0750	Code 1051	(\$) 130	Code 2051	(\$) 65	•		
Number	0/30	1052	50	2052	25	Surcharge - late filing fee or oath Surcharge - late provisional filing fee		
Deposit		1053	130	1053	100	or cover sheet.	<u> </u>	
	mess, Dickey & Pierce, P.L.C.	1812	2,520	1812	130 2,520	Non-English specification	<u> </u>	
Name		1804	920	1804	920*	For filing a request for reexamination Requesting publication of SIR prior to	 	
	rized to: (check all that apply) sted below Credit any overpayments					Examiner action		
Charge any addition	hal fee(s) during the pendency of this application ated below, except for the filing fee	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		
to the above-identified of		1251	110	2251	55	Extension for reply within first month		
	FEE CALCULATION	1252	420	2252	210	Extension for reply within second month	1 1	
1. BASIC, FILING	G FEE	1253	950	2253	475	Extension for reply within third month		
Large Entity Small Fee Fee Fee	Entity Fee Description	1254	1,480	2254	740	Extension for reply within fourth month		
Code (\$) Code	(\$) Fee Paid	1255	2,010	2255	1,005	Extension for reply within fifth month		
1001 770 2001	385 Utility filing fee	1401	330	2401	165	Notice of Appeal		
1002 340 2002	170 Design filing fee	1402	330	2402	165	Filing a brief in support of an appeal		
1003 530 2003	265 Plant filing fee	1403	290	2403	145	Request for oral hearing		
1004 770 2004 1005 160 2005	385 Reissue filing fee 80 Provisional filling fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding		
1000 100 12000	Trovisional minigree	1452	110	2452	55	Petition to revive - unavoidable		
!	SUBTOTAL (1) (\$) 0	1453	1,330	2453	665	Petition to revive - unintentional		
2 EVERA CLAIM E	EEC FOR HTH ITY AND DEIGONE	1501	1,330	2501	665	Utility issue fee (or reissue)		
2. EXTRA CLAIM F	EES FOR UTILITY AND REISSUE Extra Fee from Fee	1502	480		240	Design issue fee		
	Claims below Paid	1503	640		320	Plant issue fee		
Total Claims -:	20 ** = 0 X . = 0	1460	130		130	Petitions to the Commissioner		
Independent . Claims	-3 ·· = 0 X = 0	1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)		
Multiple		1806	1,80	1806	180	Submission of Information Disclosure Stmt	180 .	
Dependent	X = 0	8021	40	8021	40	Recording each patent assignment per property (times number of		
Fee Fee Fee	Fee Fee Description	1809	770	2809	385	properties) Filing a submission after final rejection		
Code (\$) Cod 1202 18 220	de (\$)	1810	770	2810	385	(37 CFR § 1.129(a))	\vdash	
1201 86 220			′′′	2010	385	For each additional invention to be examined (37 CFR § 1.129(b))		
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1204 86 220	14 43 ** Reissue independent claims over		.			Request for Continued Examination (RCE)		
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SUBMITTED BY	100		/ U			Complete (if applicable)		
Name (Print/Type)	G. Gregory Schivley / Bryant E. Registration No. Wade (Aftogrey/Agent)		27/	82 / 40,34	4/	Telephone (248) 641-1600		

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This collection of information is required by 37 CFR 1.½ and 1.2½ The information is sequired to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. /22 and 37/CFR 1.14. This collection/is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will/vary depending upon the individual case Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Dedermark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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07-27-64

PTO/SB/21 (04-04) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

3 TRANFAIR	Application Number	09/754,463	
TRANSMITTAL	Filing Date	January 4, 2001	
FORM	First Named Inventor	Akira ARAI et al.	
(to be used for all correspondence after initial filing)	Art Unit	1742	
	Examiner Name	John P. Sheehan	
Total Number of Pages in This Submission	Attorney Docket Number	9319A-000183	_

Under the Page work Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

		ENCLOSU	RES (check all that apply)		
Fee Transmittal Form		Drawing(s)			ter Allowance Communication to echnology Center (TC)
⊠ Fee Attached	□ Fee Attached		elated Papers		ppeal Communication to Board of opeals and Interferences
Amendment / Re	ply	Petition			ppeal Communication to TC ppeal Notice, Brief, Reply Brief)
After Final			Convert to a Application	Pr	oprietary Information
Affidavits/dec	claration(s)	Power of A Change of	ttorney, Revocation Correspondence Address	□ st	atus Letter
Extension of Time	e Request	Terminal D	isclaimer		ther Enclosure(s) lease identify below):
Express Abandonment Request		Request for Refund CD, Number of CD(s)			Form HDP 1449; Copies of cited references (17); and Acknowledgment postcard.
Information Discl	osure Statement	_			,
Certified Copy of Document(s)	Priority	Remarks			
Response to Miss Incomplete Applic					
Response to Parts under 3 1.52 or 1.53					
	SIGNA	TURE OF APP	LICANT, ATTORNEY,	OR AGE	٧T
Firm or Individual name Harness, Dickey &			Attorney Name G. Gregory Schivley Bryant E. Wade		Reg. No. 27,382 40,344
Signature	J. Mugas Chwlen				
Date	Date July 26, 2004				
	С	ERTIFICATE O	F TRANSMISSION/MA	ILING	
I hereby certify that the	his correspondence	is being facsimile	transmitted to the USPTO	or depos	sited with the United States Postal

Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below Typed or printed name G. Gregory Schivley / Fryant E. Wade Express Mail Label No. EV 533 146 599 US (7/26/2004) Signature

This collection of information is required by 37/CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.O. 122/and 67 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO fine will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent tokine Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



JUL 2 6 2004

Filing Date:

Application No.:

January 4, 2001

09/754,463

Applicant:

Akira ARAI et al

Group Art Unit:

1742

Examiner:

John P. Sheehan

Title:

MAGNETIC POWDER AND ISOTROPIC BONDED

NITED STATES PATENT AND TRADEMARK OFFICE

MAGNET

Attorney Docket:

9319A-000183

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. X Submitted herewith is a legible copy of (i) each U.S. patent application
publication and U.S. and foreign patent; (ii) each publication or that portion which
caused it to be listed; (iii) for each cross-referenced pending U.S. application
listed below in Section IV, the application specification including the claims, and
any drawing of the application which caused it to be listed including the claims
directed to that portion; and (iv) all other information or that portion which caused
it to be listed.

B Any patents, publications or other information which are listed on Form
1449 or on the copies of PTO-892, but which are not enclosed herewith, were
previously cited by or submitted to the PTO in one of the following applications
which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

C Because the present application was/is being filed after June 30, 2003,
no copies of the U.S. patents or U.S. patent application publications which are
listed on the attached Form 1449 are enclosed pursuant to the waiver of 37
C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature
listed on the attached Form 1449 are enclosed herewith.

D.____ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. If the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

- A. X Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).
- B. \underline{X} A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):
 - 1.X See the attached foreign patent office communications from related foreign applications.
 - 2.X English translations are provided: As listed on Form 1449
 - 3.X Other: Japanese Patent Application No. 2000-001805 is counterpart of USSN 09/755,641, now US Patent No. 6,527,875B2; Japanese Patent Application No. 2000-001804 counterpart of USSN 09/755,953, now US Patent No. 6,551,418B2; Chinese Patent Application No. 01123167.X corresponds to USSN 09/871,600; Chinese Application No. 01123167.X corresponds 09/871,600; Chinese Patent Application No. 00121672.4 is counterpart of USSN 09/620,703, now US Patent No. 6,558,482; Korean Patent Application No. 10-2001-0031391 corresponds to USSN 09/875,789; and Korean Patent Application No. 10-2001-0030467 corresponds to USSN 09/871,600.
- C. ____The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A.<u>X</u> The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Filing Date	Art Unit
05/31/2001	1742
06/06/2001	1742
01/07/2003	1742
02/24/2003	1742
03/10/2003	1742
11/21/2003	1742
11/21/2003	1742
10/08/2002	1742
01/04/2001	1742
	05/31/2001 06/06/2001 01/07/2003 02/24/2003 03/10/2003 11/21/2003 11/21/2003 10/08/2002

V. THIS IDS IS BEING FILED UNDER

A. ___37 C.F.R. § 1.97(b): (check only one box)

- 1. ____ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
- 2. ____ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
- 3. _____ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
- 4. ____ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. X 37 C.F.R. § 1.97(c): (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. X___No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p). 2. __ See the certification below. No fee is required. C. ___37 C.F.R. § 1.97(d): after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee. __See the certification below. A fee in the amount of \$180,00 is required by 37 C.F.R. § 1.17(p). VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box) The undersigned hereby certifies that: A. ____ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII. if applicable; or B. ___ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)). C. ____ Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining

information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

three months prior to the filing of this IDS.

each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

A. X___ A check in the amount of \$180.00 is enclosed for the above-identified fee.

Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

By:

Respectfully submitted,

ryant E. Wade

G. Gregory Schlylev, Reg. No. 27

3eg. No. 40, 34

HARNESS, DICKEY & PIERCE, P.L.C.

P.O. Box 828

Bloomfield Hills, Michigan 48303

(248) 641-1600

GGS/BEW/JJK



FORM HDP-1449 (Based of Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET No.	SERIAL NO.	_
9319A-000183	09/754,463	
APPLICANT		_
Akira ARAI et al.		
FILING DATE	GROUP	_
January 4, 2001	1742	_

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		6,527,875 B2	3/4/2003	Arai et al.	148/302	1/5/2001
2.		6,551,418 B2	4/22/2003	Arai et al.	148/302	1/5/2001
3.		6,558,482 B1	5/6/2003	Arai et al.	148/302	7/20/2000
4 .		6,500,277 B1	12/31/2002	Arai et al.	148/302	1/9/2001

FORE	FOREIGN PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translatio Yes	n No
1.		2001-035712	2/9/2001	Japan		Х	
2.		01-205403	8/17/1989	Japan		Abstract	
3.		10-265915	10/06/1998	Japan		X	
4.		10-177911	06/30/1998	Japan		Х	
5.		11-288807**	10/19/1999	Japan		X	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)					
Ref. Desig.	Examiner's Initials				
1.		Communication from Japanese Patent Office re: counterpart application No. 2000-001805			
2.		Communication from Japanese Patent Office re: counterpart application No. 2000-001804			
3.		Communication from Chinese Patent Office re: counterpart application No. 01123167.X			
· 4.		Communication from Chinese Patent Office re: counterpart application No. 00121672.4			

Examiner:	Date Considered:
	Bute Considered.



FORM HDP-1449 (Based of Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 2 of 2

ATTORNEY DOCKET No.	SERIAL NO.		
9319A-000183	09/754,463		
APPLICANT			
Akira ARAI et al.			
FILING DATE	GROUP		
January 4, 2001	1742		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)					
Ref. Desig.	Examiner's Initials				
5.		Goll, D. et al, Journal of Magnetism and Magnetic Materials, "Magnetic and Microstructural Properties of Nanocrystalline Exchange Coupled PrFeB Permanent Magnets", 185 (1998) pp. 49-60.			
6.		Chang, W.C. et al, "Magnetic Properties Enhancement of Alpha-Fe/Nd2Fe14B-Type Nanocomposites by Co Substitution", Journal of Applied Physics, American Institute of Physics, New York, Vol. 83, No. 4, 15 Feb. 1998, pps. 2147-2151.			
7.		Communication from Korean Patent Office re: counterpart application No. 10-2001-0031391			
8.		Communication from Korean Patent Office re: counterpart application No. 10-2001-0030467			

^{*} One or more of the English translation documents submitted herewith may be Abstracts only or partial machine created translations from the Japanese Patent Office. As such, the submitter does not necessarily vouch for their accuracy. Additional information may be obtained from the Japanese Patent Office web site at www.ipo.go.ip.

Examiner:	Date Considered:	

^{**}Previously submitted